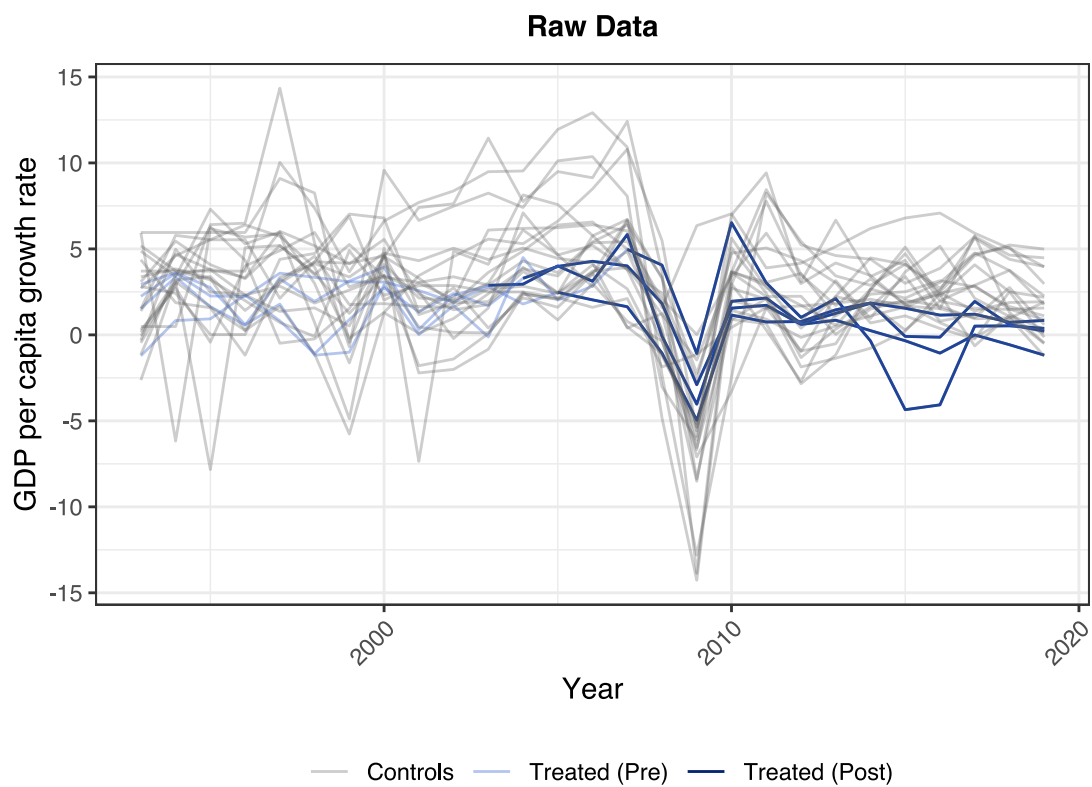


A0. Raw data

Figure A0.1. Plot of raw data trends



A1. Main results – detailed R output

Table A1.1. BRA main model output

Response variable	GDP per capita growth rate						
Model	BRA						
ATT effect of mega-events	1.17 (1.75) [p-value: 0.50]						
MSPE	1.79						
sigma2	2.67						
Model fitness by period (R output)		ATT	S.E.	CI.lower	CI.upper	p.value	n.Treated
	-14	-0.240011	1.0143	-2.2280	1.7480	0.8129486	0
	-13	0.400710	0.8655	-1.2956	2.0970	0.6433741	0
	-12	-0.078709	1.2294	-2.4883	2.3309	0.9489536	0
	-11	-0.721077	1.6074	-3.8715	2.4293	0.6537168	0
	-10	0.561216	1.2442	-1.8774	2.9998	0.6519392	0
	-9	-1.574704	1.0390	-3.6112	0.4618	0.1296343	0
	-8	-0.183671	0.9177	-1.9823	1.6150	0.8413660	0
	-7	1.144629	1.2538	-1.3128	3.6021	0.3612943	0
	-6	0.281036	1.0427	-1.7626	2.3247	0.7875252	0
	-5	0.986581	1.0532	-1.0776	3.0508	0.3488747	0
	-4	-1.698873	0.9613	-3.5829	0.1852	0.0771764	0
	-3	1.080191	0.9231	-0.7291	2.8895	0.2419537	0
	-2	-0.833482	0.9339	-2.6639	0.9969	0.3721332	0
	-1	-0.561562	1.0797	-2.6777	1.5546	0.6029789	0
	0	1.466321	1.6528	-1.7731	4.7058	0.3749858	0
	1	3.513458	3.1495	-2.6595	9.6864	0.2646120	1
	2	3.021323	4.4198	-5.6413	11.6840	0.4942359	1
	3	3.832530	2.8790	-1.8102	9.4753	0.1831240	1
	4	0.812922	1.2861	-1.7078	3.3336	0.5273320	1
	5	0.906398	2.2170	-3.4388	5.2516	0.6826576	1
	6	1.279961	1.8657	-2.3768	4.9367	0.4926837	1
	7	-1.329873	1.6147	-4.4947	1.8349	0.4101731	1
8	-5.460845	1.5472	-8.4933	-2.4284	0.0004163	1	
9	-4.384422	1.3751	-7.0795	-1.6894	0.0014299	1	
10	-0.002213	1.3799	-2.7068	2.7024	0.9987204	1	
11	0.173363	1.0923	-1.9676	2.3143	0.8738999	1	
12	0.781863	1.5011	-2.1602	3.7239	0.6024591	1	
Implied weights of IFE models (R output)	CHL	0.950614					
	COL	2.095777					
	CRI	0.680353					
	CZE	1.139604					
	DNK	0.007425					
	EST	-2.469831					
	FIN	-0.750436					
	HUN	-0.508880					
	IND	0.846083					
	ISL	-1.041400					
	ISR	1.142934					
	LTU	-0.425935					
	LUX	-1.405056					
	LVA	-2.065733					
	MEX	-1.613567					
	NZL	0.683238					
SVK	1.251498						
SVN	0.109105						
SWE	-0.364650						
TUR	0.738858						
Covariates (R output)	Coefficients for the Covariates:						
		beta	S.E.	CI.lower	CI.upper	p.value	
	inflation	-0.0008026	0.001076	-0.002912	0.001307	0.45585148	
	industry	0.2736576	0.064528	0.147184	0.400131	0.00002226	
	export	-0.0060375	0.009506	-0.024668	0.012593	0.52533280	
lifeexp	-0.0067176	0.087846	-0.178893	0.165458	0.93904510		

Unobserved factors	3
Fixed effects	Two-way
Observations	567
Treated countries	
Control countries	"CHL", "COL", "CRI", "CZE", "DNK", "EST", "FIN", "HUN", "IND", "ISL", "ISR", "LTU", "LUX", "LVA", "MEX", "NZL", "SVK", "SVN", "SWE", "TUR"
Note: main entries are ATT effects; the numbers in parentheses are standard errors and <i>p-values</i> for ATT are in brackets.	

Table A1.2. CAN main model output

Response variable	<i>GDP per capita growth rate</i>						
Model	CAN						
ATT effect of mega-events	-0.35 (0.97) [p-value: 0.71]						
MSPE	1.24						
sigma2	3.61						
Model fitness by period (R output)		ATT	S.E.	CI.lower	CI.upper	p.value	n.Treated
	-10	-0.09922	2.001	-4.021	3.8225	0.9605	0
	-9	0.17594	1.686	-3.129	3.4804	0.9169	0
	-8	-0.72762	2.329	-5.293	3.8381	0.7548	0
	-7	-1.69980	1.797	-5.222	1.8219	0.3442	0
	-6	0.52525	1.626	-2.661	3.7113	0.7466	0
	-5	-0.29210	1.474	-3.180	2.5963	0.8429	0
	-4	1.10253	1.987	-2.793	4.9977	0.5791	0
	-3	0.29888	1.759	-3.149	3.7467	0.8651	0
	-2	-0.86706	1.923	-4.637	2.9028	0.6521	0
	-1	0.92532	1.168	-1.365	3.2152	0.4283	0
	0	0.73093	1.373	-1.960	3.4217	0.5944	0
	1	-0.86683	1.489	-3.785	2.0511	0.5604	1
	2	0.50267	1.768	-2.963	3.9678	0.7762	1
	3	-1.13756	1.992	-5.041	2.7660	0.5679	1
	4	1.59681	2.761	-3.815	7.0084	0.5630	1
	5	-0.97128	2.240	-5.362	3.4191	0.6646	1
6	0.09360	4.537	-8.799	8.9860	0.9835	1	
7	-0.55253	2.738	-5.918	4.8134	0.8401	1	
8	-0.11881	1.516	-3.090	2.8526	0.9375	1	
9	0.24098	1.988	-3.655	4.1373	0.9035	1	
10	-0.22676	1.967	-4.083	3.6294	0.9082	1	
11	-0.51092	1.244	-2.950	1.9277	0.6813	1	
12	-2.13317	1.493	-5.060	0.7933	0.1531	1	
13	-1.64674	1.444	-4.478	1.1841	0.2542	1	
14	0.80689	1.358	-1.854	3.4682	0.5523	1	
15	-0.61578	1.042	-2.659	1.4270	0.5547	1	
16	-0.18330	1.482	-3.088	2.7212	0.9016	1	
Implied weights of IFE models (R output)	CHL	0.41451					
	COL	0.84763					
	CRI	1.10063					
	CZE	0.37633					
	DNK	1.26596					
	EST	-4.56949					
	FIN	0.08187					
	HUN	0.17622					
	IND	2.90512					
	ISL	-0.06117					
	ISR	2.08076					
	LTU	-3.67474					
LUX	1.11497						
LVA	-4.56482						
MEX	0.63813						

	NZL 1.90548 SVK -0.55684 SVN 0.13976 SWE 1.04027 TUR -1.66060																														
Covariates (R output)	Coefficients for the Covariates: <table border="1"> <thead> <tr> <th></th> <th>beta</th> <th>S.E.</th> <th>CI.lower</th> <th>CI.upper</th> <th>p.value</th> </tr> </thead> <tbody> <tr> <td>inflation</td> <td>-0.064745</td> <td>0.013052</td> <td>-0.09033</td> <td>-0.03916</td> <td>0.0000007035</td> </tr> <tr> <td>industry</td> <td>0.361375</td> <td>0.066149</td> <td>0.23173</td> <td>0.49102</td> <td>0.0000000468</td> </tr> <tr> <td>export</td> <td>-0.002069</td> <td>0.009535</td> <td>-0.02076</td> <td>0.01662</td> <td>0.8281807589</td> </tr> <tr> <td>lifeexp</td> <td>-0.243579</td> <td>0.110509</td> <td>-0.46017</td> <td>-0.02698</td> <td>0.0275136909</td> </tr> </tbody> </table>		beta	S.E.	CI.lower	CI.upper	p.value	inflation	-0.064745	0.013052	-0.09033	-0.03916	0.0000007035	industry	0.361375	0.066149	0.23173	0.49102	0.0000000468	export	-0.002069	0.009535	-0.02076	0.01662	0.8281807589	lifeexp	-0.243579	0.110509	-0.46017	-0.02698	0.0275136909
	beta	S.E.	CI.lower	CI.upper	p.value																										
inflation	-0.064745	0.013052	-0.09033	-0.03916	0.0000007035																										
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lifeexp	-0.243579	0.110509	-0.46017	-0.02698	0.0275136909																										
Unobserved factors	1																														
Fixed effects	Two-way																														
Observations	567																														
Treated countries																															
Control countries	"CHL", "COL", "CRI", "CZE", "DNK", "EST", "FIN", "HUN", "IND", "ISL", "ISR", "LTU", "LUX", "LVA", "MEX", "NZL", "SVK", "SVN", "SWE", "TUR"																														
Note: main entries are ATT effects; the numbers in parentheses are standard errors and <i>p-values</i> for ATT are in brackets.																															

Table A1.3. GBR main model output

Response variable	<i>GDP per capita growth rate</i>						
Model	<i>GBR</i>						
ATT effect of mega-events	0.3013 (0.9381) [p-value: 0.7481]						
MSPE	0.60						
sigma2	2.88						
Model fitness by period (R output)		ATT	S.E.	CI.lower	CI.upper	p.value	n.Treated
	-10	-0.09922	2.001	-4.021	3.8225	0.9605	0
	-9	0.17594	1.686	-3.129	3.4804	0.9169	0
	-8	-0.72762	2.329	-5.293	3.8381	0.7548	0
	-7	-1.69980	1.797	-5.222	1.8219	0.3442	0
	-6	0.52525	1.626	-2.661	3.7113	0.7466	0
	-5	-0.29210	1.474	-3.180	2.5963	0.8429	0
	-4	1.10253	1.987	-2.793	4.9977	0.5791	0
	-3	0.29888	1.759	-3.149	3.7467	0.8651	0
	-2	-0.86706	1.923	-4.637	2.9028	0.6521	0
	-1	0.92532	1.168	-1.365	3.2152	0.4283	0
	0	0.73093	1.373	-1.960	3.4217	0.5944	0
	1	-0.86683	1.489	-3.785	2.0511	0.5604	1
	2	0.50267	1.768	-2.963	3.9678	0.7762	1
	3	-1.13756	1.992	-5.041	2.7660	0.5679	1
	4	1.59681	2.761	-3.815	7.0084	0.5630	1
	5	-0.97128	2.240	-5.362	3.4191	0.6646	1
6	0.09360	4.537	-8.799	8.9860	0.9835	1	
7	-0.55253	2.738	-5.918	4.8134	0.8401	1	
8	-0.11881	1.516	-3.090	2.8526	0.9375	1	
9	0.24098	1.988	-3.655	4.1373	0.9035	1	
10	-0.22676	1.967	-4.083	3.6294	0.9082	1	
11	-0.51092	1.244	-2.950	1.9277	0.6813	1	
12	-2.13317	1.493	-5.060	0.7933	0.1531	1	
13	-1.64674	1.444	-4.478	1.1841	0.2542	1	
14	0.80689	1.358	-1.854	3.4682	0.5523	1	
15	-0.61578	1.042	-2.659	1.4270	0.5547	1	
16	-0.18330	1.482	-3.088	2.7212	0.9016	1	
Implied weights of	CHL	0.41451					
	COL	0.84763					
	CRI	1.10063					

IFE models (R output)	CZE 0.37633 DNK 1.26596 EST -4.56949 FIN 0.08187 HUN 0.17622 IND 2.90512 ISL -0.06117 ISR 2.08076 LTU -3.67474 LUX 1.11497 LVA -4.56482 MEX 0.63813 NZL 1.90548 SVK -0.55684 SVN 0.13976 SWE 1.04027 TUR -1.66060																														
Covariates (R output)	Coefficients for the Covariates: <table border="1"> <thead> <tr> <th></th> <th>beta</th> <th>S.E.</th> <th>CI.lower</th> <th>CI.upper</th> <th>p.value</th> </tr> </thead> <tbody> <tr> <td>inflation</td> <td>-0.064745</td> <td>0.013052</td> <td>-0.09033</td> <td>-0.03916</td> <td>0.0000007035</td> </tr> <tr> <td>industry</td> <td>0.361375</td> <td>0.066149</td> <td>0.23173</td> <td>0.49102</td> <td>0.0000000468</td> </tr> <tr> <td>export</td> <td>-0.002069</td> <td>0.009535</td> <td>-0.02076</td> <td>0.01662</td> <td>0.8281807589</td> </tr> <tr> <td>lifeexp</td> <td>-0.243579</td> <td>0.110509</td> <td>-0.46017</td> <td>-0.02698</td> <td>0.0275136909</td> </tr> </tbody> </table>		beta	S.E.	CI.lower	CI.upper	p.value	inflation	-0.064745	0.013052	-0.09033	-0.03916	0.0000007035	industry	0.361375	0.066149	0.23173	0.49102	0.0000000468	export	-0.002069	0.009535	-0.02076	0.01662	0.8281807589	lifeexp	-0.243579	0.110509	-0.46017	-0.02698	0.0275136909
	beta	S.E.	CI.lower	CI.upper	p.value																										
inflation	-0.064745	0.013052	-0.09033	-0.03916	0.0000007035																										
industry	0.361375	0.066149	0.23173	0.49102	0.0000000468																										
export	-0.002069	0.009535	-0.02076	0.01662	0.8281807589																										
lifeexp	-0.243579	0.110509	-0.46017	-0.02698	0.0275136909																										
Unobserved factors	2																														
Fixed effects	Two-way																														
Observations	567																														
Treated countries	the UK [T: 2006-2019]																														
Control countries	"CHL", "COL", "CRI", "CZE", "DNK", "EST", "FIN", "HUN", "IND", "ISL", "ISR", "LTU", "LUX", "LVA", "MEX", "NZL", "SVK", "SVN", "SWE", "TUR"																														
Note: main entries are ATT effects; the numbers in parentheses are standard errors and <i>p-values</i> for ATT are in brackets.																															

Table A1.4. ZAF main model output

Response variable	GDP per capita growth rate						
Model	ZAF						
ATT effect of mega-events	0.62 (0.93) [p-value: 0.50]						
MSPE	1.30						
sigma2	3.60						
Model fitness by period (R output)		ATT	S.E.	CI.lower	CI.upper	p.value	n.Treated
	-11	-0.81416	1.933	-4.602	2.974	0.6735	0
	-10	-0.30449	1.610	-3.460	2.851	0.8500	0
	-9	0.09490	2.354	-4.519	4.709	0.9678	0
	-8	1.40363	1.739	-2.005	4.812	0.4196	0
	-7	-0.62243	1.617	-3.792	2.547	0.7003	0
	-6	-2.19648	1.438	-5.014	0.621	0.1265	0
	-5	0.50283	1.818	-3.060	4.066	0.7821	0
	-4	0.40987	1.677	-2.878	3.697	0.8070	0
	-3	0.59385	1.903	-3.135	4.323	0.7549	0
	-2	1.19085	1.130	-1.025	3.406	0.2921	0
	-1	-0.14371	1.260	-2.614	2.327	0.9092	0
	0	0.12094	1.184	-2.200	2.442	0.9186	0
	1	1.27607	1.573	-1.807	4.359	0.4172	1
	2	1.21329	1.896	-2.502	4.929	0.5222	1
	3	1.24989	2.794	-4.226	6.726	0.6546	1
	4	2.25930	2.511	-2.661	7.180	0.3682	1
	5	2.33466	4.757	-6.988	11.657	0.6235	1
	6	-0.02545	3.072	-6.047	5.996	0.9934	1

	7	0.68916	1.496	-2.243	3.621	0.6450	1
	8	1.62959	1.947	-2.186	5.445	0.4026	1
	9	1.18314	1.966	-2.671	5.037	0.5474	1
	10	0.12408	1.205	-2.238	2.486	0.9180	1
	11	-0.63435	1.415	-3.408	2.139	0.6539	1
	12	-1.13138	1.405	-3.885	1.622	0.4206	1
	13	-0.06354	1.352	-2.713	2.586	0.9625	1
	14	-0.45322	1.068	-2.546	1.640	0.6713	1
	15	-0.29476	1.498	-3.230	2.641	0.8440	1
Implied weights of IFE models (R output)	CHL	0.62843					
	COL	1.23137					
	CRI	1.56726					
	CZE	0.58181					
	DNK	1.83211					
	EST	-6.48615					
	FIN	0.14136					
	HUN	0.26624					
	IND	4.16944					
	ISL	-0.07068					
	ISR	2.99679					
	LTU	-5.22185					
	LUX	1.59314					
	LVA	-6.51468					
	MEX	0.91576					
	NZL	2.74198					
	SVK	-0.75647					
	SVN	0.22861					
	SWE	1.50002					
	TUR	-2.34449					
Covariates (R output)	Coefficients for the Covariates:						
		beta	S.E.	CI.lower	CI.upper	p.value	
	inflation	-0.064935	0.012982	-0.09038	-0.03949	0.00000056770	
	industry	0.365399	0.064732	0.23853	0.49227	0.00000001654	
	export	-0.001963	0.009662	-0.02090	0.01697	0.83897155738	
	lifeexp	-0.253755	0.094303	-0.43859	-0.06892	0.00712739339	
Unobserved factors	1						
Fixed effects	Two-way						
Observations	567						
Treated countries							
Control countries	"CHL", "COL", "CRI", "CZE", "DNK", "EST", "FIN", "HUN", "IND", "ISL", "ISR", "LTU", "LUX", "LVA", "MEX", "NZL", "SVK", "SVN", "SWE", "TUR"						
Note: main entries are ATT effects; the numbers in parentheses are standard errors and <i>p-values</i> for ATT are in brackets.							

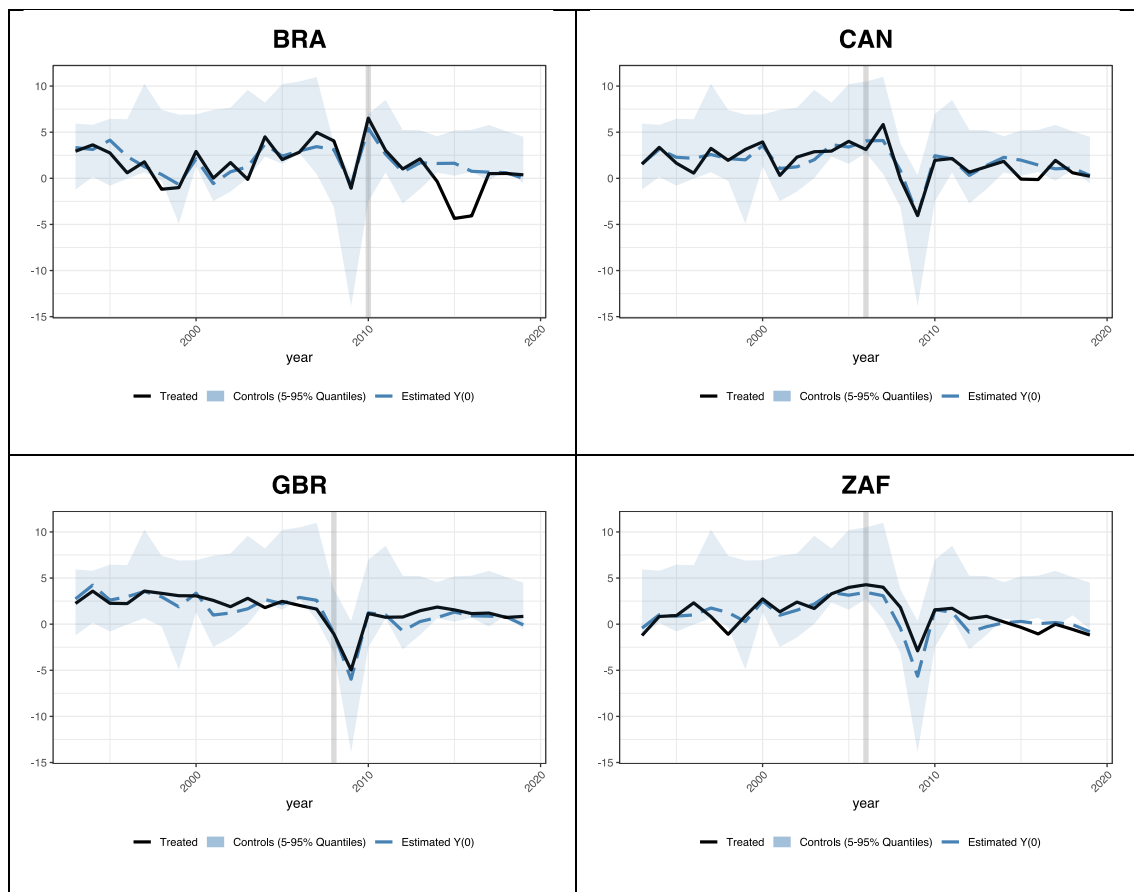
A2. Sensitivity analyses – shifted treatment moment (3 years before the event)

Table A2.1. Overview of GSC models [*total effect* of mega-events] – with the shifted treatment year.

Response variable	GDP PER CAPITA GROWTH RATE			
Model	<i>BRA</i>	<i>CAN</i>	<i>GBR</i>	<i>ZAF</i>
ATT effect of mega-events	-1.27 (0.57) [p-value: 0.03]	-0.24 (1.00) [0.81]	0.56 (1.19) [p-value: 0.64]	0.48 (1.00) [0.63]
MSPE	3.30	1.14	0.94	1.25
sigma2	2.37	3.60	3.58	3.60
Covariates	lifeexp; inflation; industry; export			
Unobserved factors	4	1	1	1
Fixed effects	Two-way	Two-way	Two-way	Two-way
Observations	567	567	567	567
Treated countries	BRA [T: 2011-2019]	CAN [T: 2007-2019]	the UK [T: 2009-2019]	South Africa [T: 2007-2019]
Control countries	"CHL", "COL", "CRI", "CZE", "DNK", "EST", "FIN", "HUN", "IND", "ISL", "ISR", "LTU", "LUX", "LVA", "MEX", "NZL", "SVK", "SVN", "SWE", "TUR"			

Note: main entries are ATT effects; the numbers in parentheses are standard errors and *p-values* for ATT are in brackets.

Figure A2.1. Band plots



A3. Alternative main model for BRA (no factors, FE model)

Table A3.1. FE model for Brazil (summary)

Response variable	<i>GDP per capita growth rate</i>				
Model	<i>BRA</i>				
ATT effect of mega-events	1.17 (1.75) [p-value: 0.50]				
MSPE	1.68				
sigma2	5.60				
Covariates (R output)	Coefficients for the Covariates:				
	beta	S.E.	CI.lower	CI.upper	p.value
inflation	-0.0008453	0.001275	-0.003344	0.001653	0.50727259
industry	0.3558175	0.083315	0.192523	0.519112	0.00001948
export	-0.0105698	0.010229	-0.030619	0.009479	0.30146739
lifeexp	-0.0320391	0.141246	-0.308877	0.244798	0.82055456
Unobserved factors	0				
Fixed effects	Two-way				
Observations	567				
Treated countries	BRA [T: 2006-2019]				
Control countries	"CHL", "COL", "CRI", "CZE", "DNK", "EST", "FIN", "HUN", "IND", "ISL", "ISR", "LTU", "LUX", "LVA", "MEX", "NZL", "SVK", "SVN", "SWE", "TUR"				
Note: main entries are ATT effects; the numbers in parentheses are standard errors and <i>p-values</i> for ATT are in brackets.					

A4. Main models w/o controlling for the life expectancy at birth

Table A4.1. Main models reestimated excluding the life expectancy at birth

Response variable	<i>GDP PER CAPITA GROWTH RATE</i>			
Model	<i>BRA</i>	<i>CAN</i>	<i>GBR</i>	<i>ZAF</i>
ATT effect of mega-events	0.53 (1.47) [p-value: 0.72]	-0.21 (1.0) [0.83]	0.37 (1.01) [p-value: 0.71]	1.16 (1.06) [0.27]
MSPE	1.75	1.27	0.64	3.03
sigma2	2.68	3.62	2.87	2.91
Covariates	inflation; industry; export			
Unobserved factors	3	1	2	2
Fixed effects	Two-way	Two-way	Two-way	Two-way
Observations	567	567	567	567
Treated countries	BRA [T: 2008-2019]	CAN [T: 2004-2019]	the UK [T: 2006-2019]	South Africa [T: 2005-2019]
Control countries	"CHL", "COL", "CRI", "CZE", "DNK", "EST", "FIN", "HUN", "IND", "ISL", "ISR", "LTU", "LUX", "LVA", "MEX", "NZL", "SVK", "SVN", "SWE", "TUR"			

Note: main entries are ATT effects; the numbers in parentheses are standard errors and *p-values* for ATT are in brackets.

A5. Donor pool

Table A5.1. Donor pool

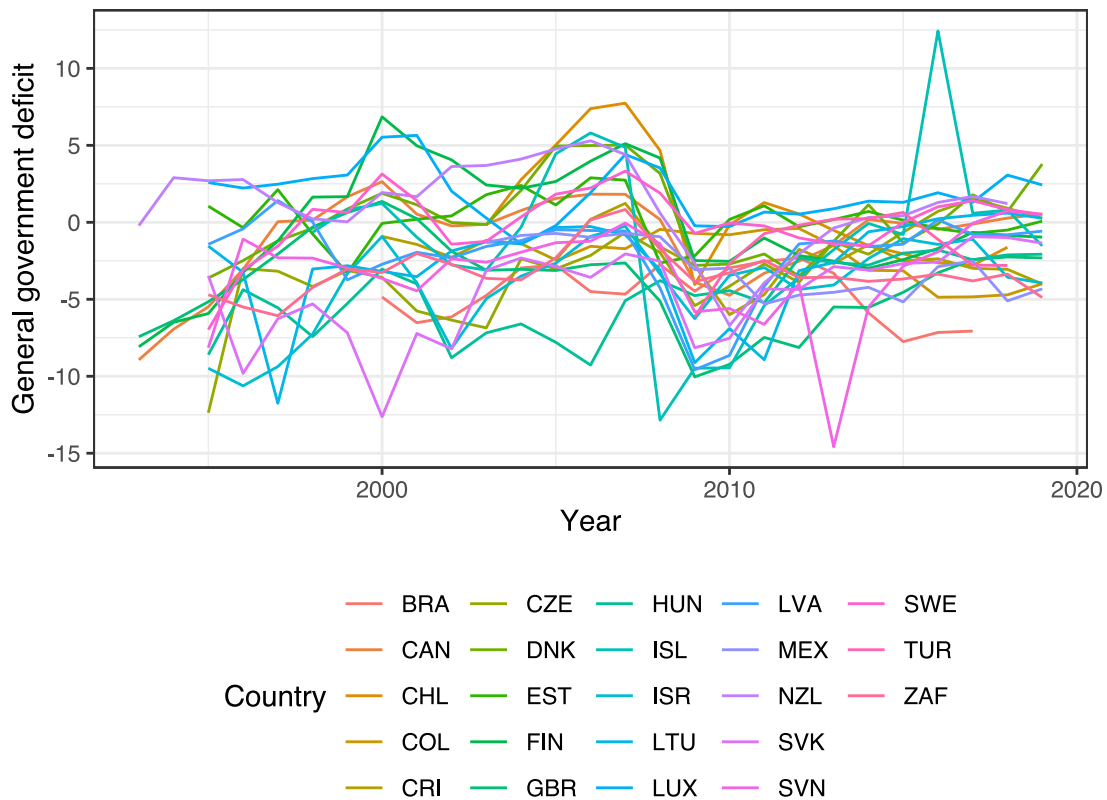
<i>OECD 2020</i>	Australia Austria Belgium Canada Chile Colombia Costa Rica Czech Republic Denmark Estonia Finland France Germany Greece Hungary Iceland Ireland Israel Italy Japan Latvia Lithuania Luxembourg Mexico Netherlands New Zealand Norway Poland Portugal Slovak Republic Slovenia South Korea Spain Sweden Switzerland Turkey United Kingdom United States
<i>Key partners</i>	Brazil, China, India, Indonesia, South Africa

Table A5.2. Mega events since 2000 (summary)

	Recent hosts				
Olympic Games	2016 Rio da Janeiro - Brazil	2012 – London – Great Britain	2008 – Beijing - China	2004 – Athens - Greece	2000 – Sydney - Australia
European football championships	2016 - France	2012 – Poland / Ukraine	2008 – Austria / Switzerland	2004 - Portugal	2000 – Belgium / Netherlands
FIFA World Cup	2018 - Russia	2014 - Brazil	2010 – South Africa	2006 - Germany	2002 – South Korea / Japan
Expo	2015 – Milan - Italy	2010 – Shanghai - China	2005 – Aichi - Japan	2000 – Hannover - Germany	
Asian Games	2018 – Jakarta – Palembang - Indonesia	2014 – Incheon – South Korea	2010 – Guangzhou - China	2006 – Doha - Qatar	2002 – Busan – South Korea
Olympic Winter Games	2018 – PyeongChang – South Korea	2014 – Sochi - Russia	2010 – Vancouver - Canada	2006 – Torino - Italy	2002 – Salt Lake City - USA

A6. General government deficit

Figure A6.1. General government deficit plot



A7. GDP per capita growth vs the life expectancy at birth – scatterplots

Figure A7.1.

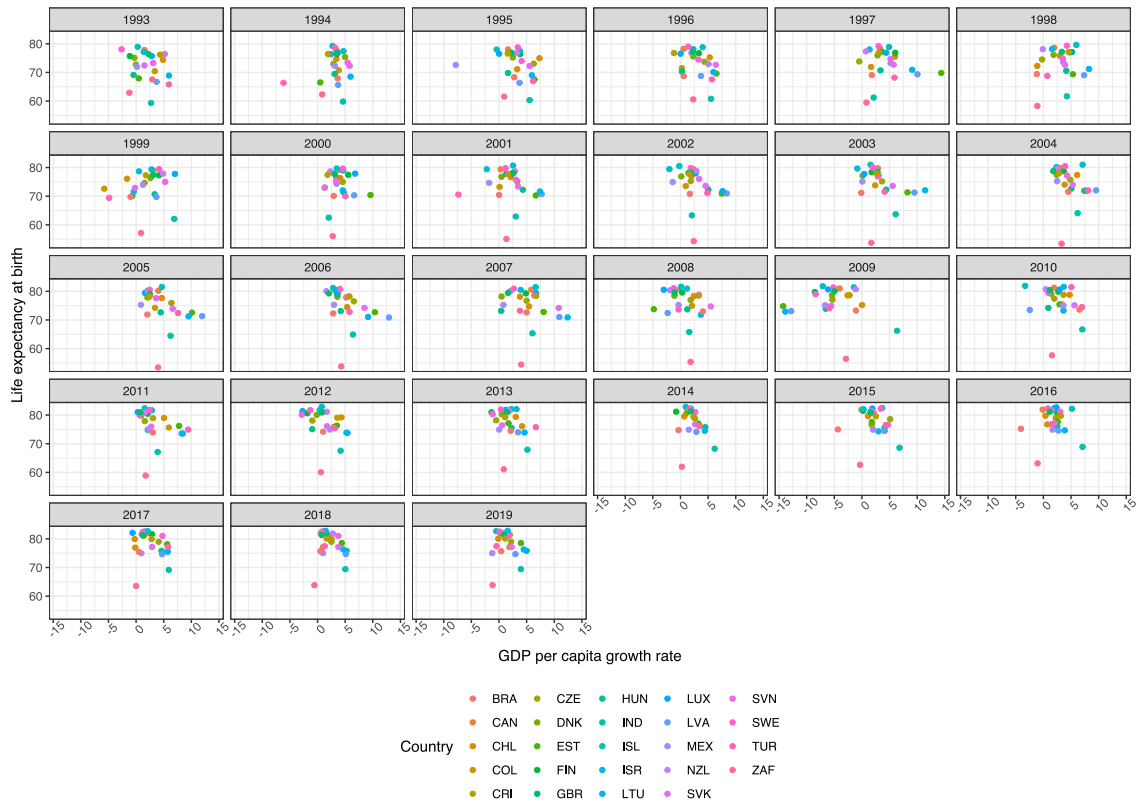
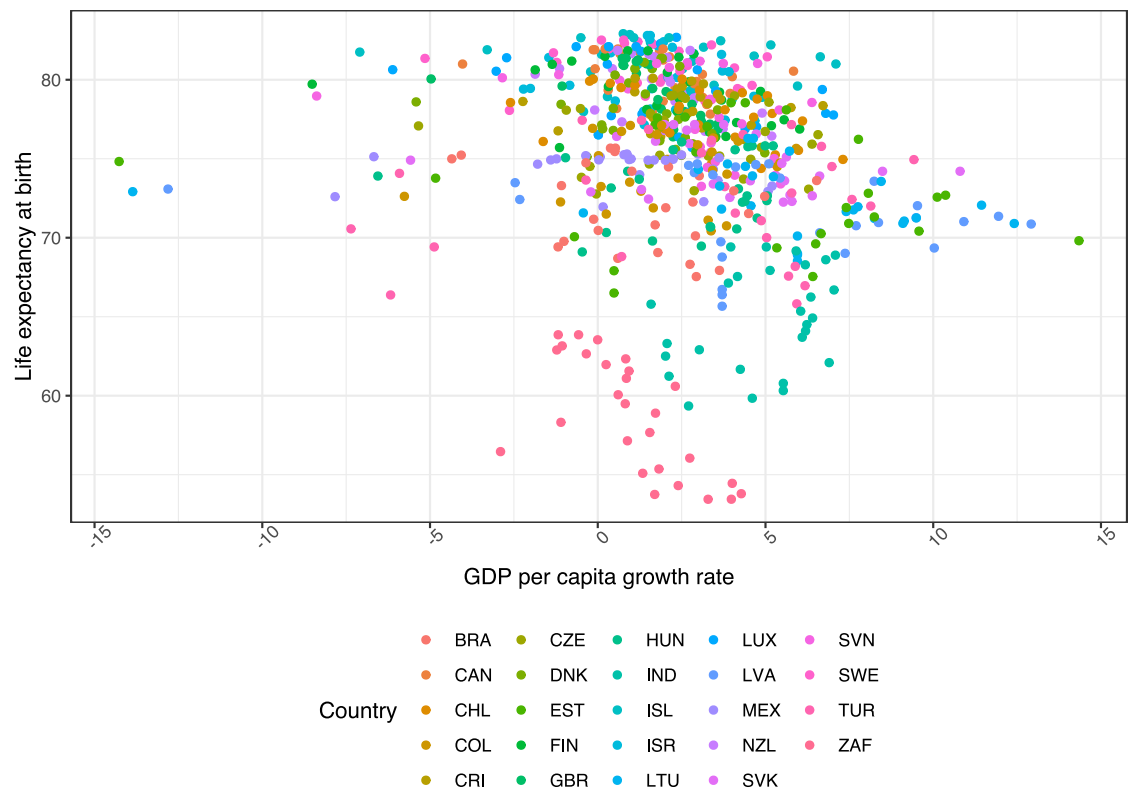


Figure A7.2.



A8. Empirical distributions for the response variable and for covariates – boxplots

Figure A8.1. Response variable (GDP growth rate)

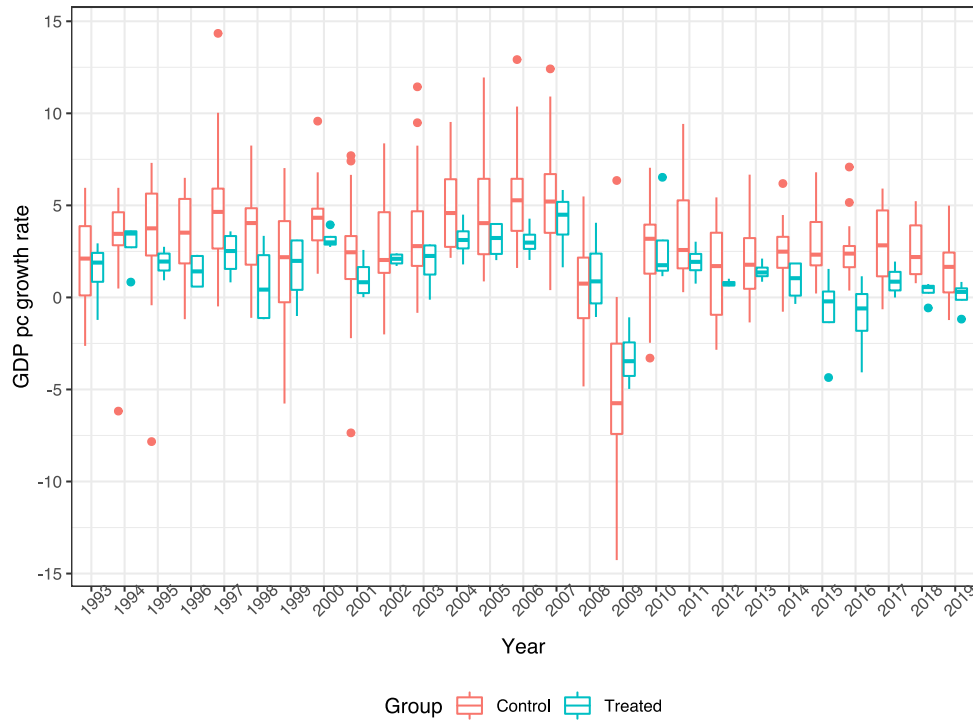


Figure A8.2. Covariates (Inflation)

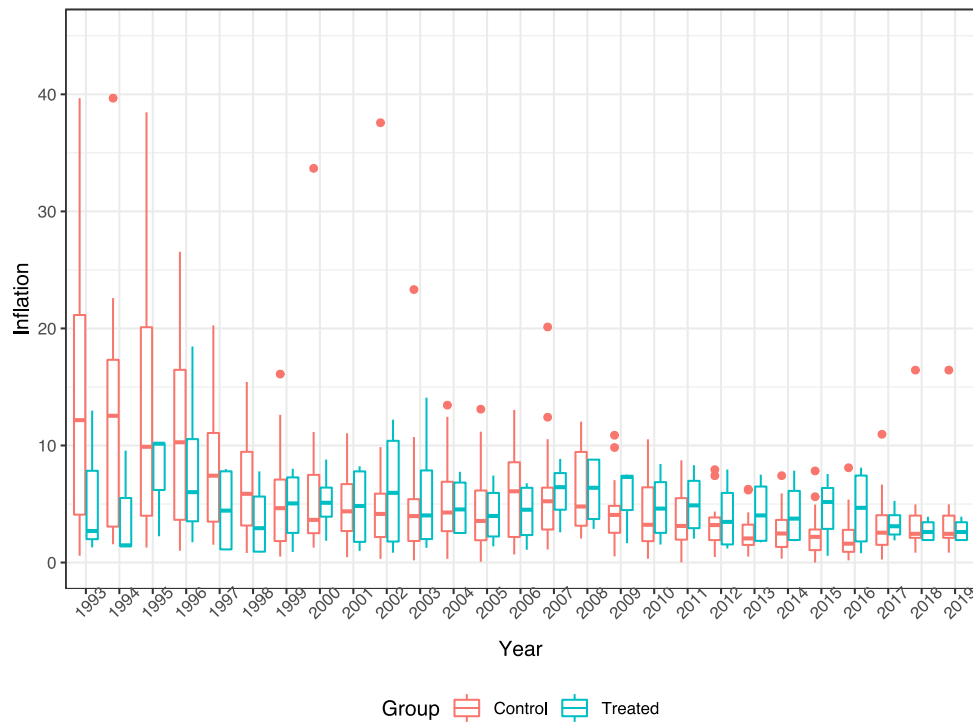


Figure A8.3. Covariates (Industry)

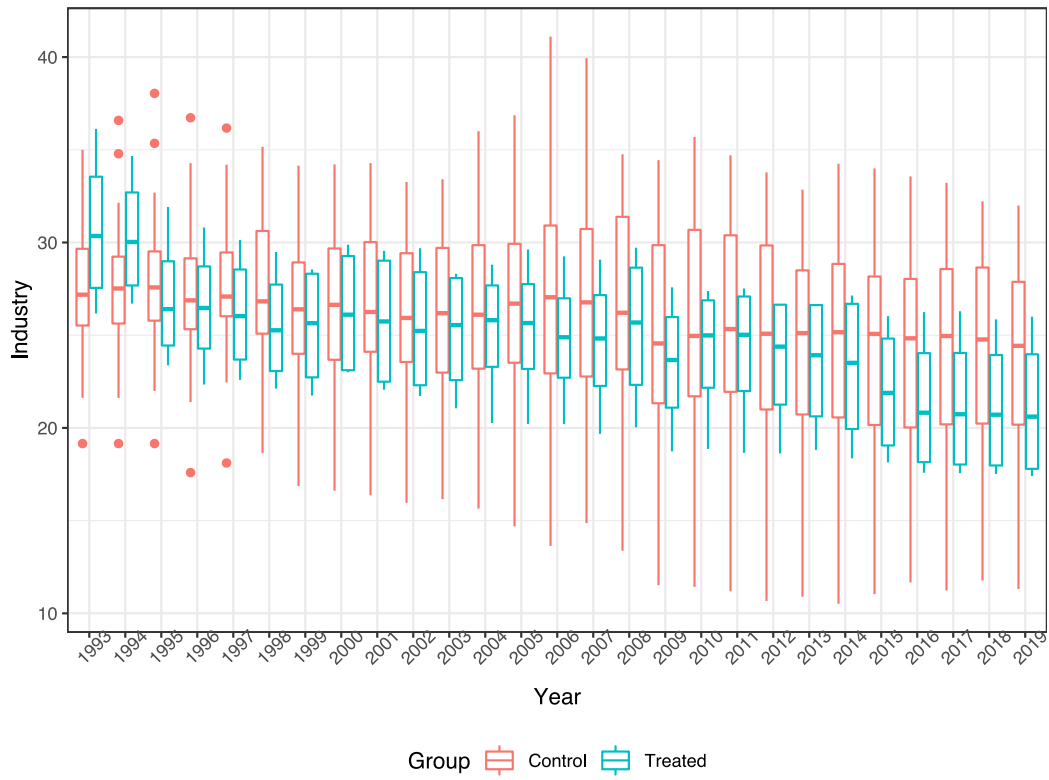


Figure A8.4. Covariates (Export)

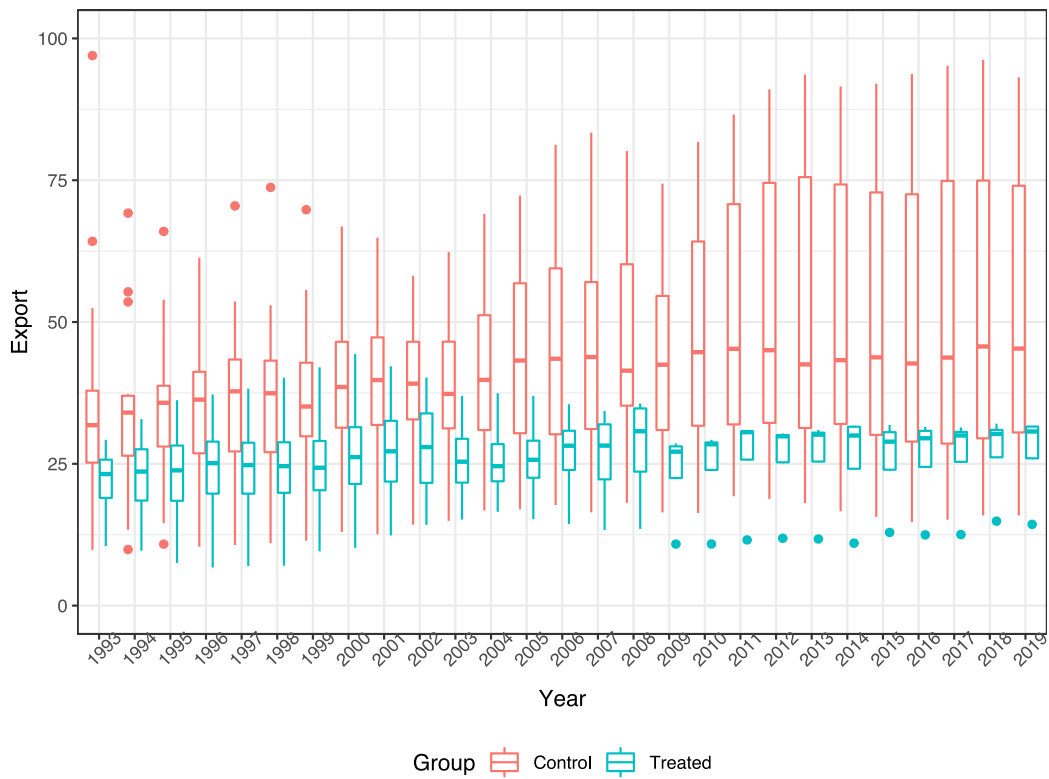


Figure A8.5. Covariates (Life expectancy)

